

Substance Name	CASRN	<i>In Vitro</i> Conc. Tested	<i>In Vivo</i> Conc. Tested	Chemical Class	<i>In Vivo</i> Physical Form Tested	pH	Property of Interest	<i>In Vivo</i> (GHS) Classification ¹	GHS Category 1 Subclass ²	<i>In Vivo</i> (EPA) Classification ³	<i>In Vivo</i> (EU) Classification ⁴	<i>In Vitro</i> Classification (S-Score) ⁵	Reference
Ammonium nitrate	6484-52-2	100%	100%	Inorganic salt, Onium	Solid			Category 2B		Category III	R36	Severe	Balls et al. (1995)
L-Aspartic acid	70-47-3	100%	100%	Amino acid	Solid			SCNM		SCNM	SCNM	Nonirritant	Balls et al. (1995)
Benzoyl-L-tartaric acid	2743-38-6	100%	100%	Carboxylic acid, Ester	Solid			Category 1	2	SCNM	R41	Nonirritant	Balls et al. (1995)
Captan 90 concentrate	133-06-2	100%	100%	Imide, Organic sulfur compound	Solid			Category 1	4	Category I	R41	Nonirritant	Balls et al. (1995)
4- Carboxybenzaldehyde	619-66-9	100%	100%	Carboxylic acid, Aldehyde	Solid			Category 2A		Category II	R36	Moderate	Balls et al. (1995)
Chlorhexidine	55-56-1	100%	100%	Amidine	Solid			Category 1	4	SCNM	SCNM	Moderate	Balls et al. (1995)
Dibenzyl phosphate	1623-08-1	100%	100%	Ester	Solid			Category 2A		Category II	R36	Severe	Balls et al. (1995)
2,5- Dimethylhexanediol	110-03-2	100%	100%	Alcohol	Solid			Category 1	1	Category I	R41	Severe	Balls et al. (1995)
Fomesafen	72128-02-0	100%	100%	Imide, Ether, Nitro compound	Solid			Nonirritant		Category III	Nonirritant	Moderate	Balls et al. (1995)
Imidazole	288-32-4	100%	100%	Heterocycle	Solid			Category 1	4	Category I	R41	Severe	Balls et al. (1995)
Maneb	12427-38-2	100%	100%	Amine, Organic salt, Urea	Solid			SCNM		Category III	SCNM	Nonirritant	Balls et al. (1995)
1-Naphthalene acetic acid	86-87-3	100%	100%	Carboxylic acid, Polycyclic compound	Solid			Category 1	NC	Category I	SCNM	Moderate	Balls et al. (1995)
1-Naphthalene acetic acid, Na salt	61-31-4	100%	100%	Organic salt, Carboxylic acid salt, Polycyclic compound	Solid			Category 1	1	Category I	R41	Severe	Balls et al. (1995)
Potassium cyanate	590-28-3	100%	100%	Inorganic salt	Solid			SCNM		SCNM	SCNM	Severe	Balls et al. (1995)
Promethazine HCl	58-33-3	100%	100%	Amine, Heterocycle, Organic sulfur compound	Solid			Category 1	1	Category I	R41	Severe	Balls et al. (1995)
Quinacrine	69-05-6	100%	100%	Amine, Heterocycle, Polycyclic compound	Solid			Category 1	3	Category I	R41	Nonirritant	Balls et al. (1995)
Sodium oxalate	62-76-0	100%	100%	Organic salt, Carboxylic acid salt	Solid			Category 1	4	Category I	R41	Moderate	Balls et al. (1995)

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Sodium perborate	10486-00-7	100%	100%	Inorganic salt, Boron containing compound	Solid			Category 1	4	Category I	R41	Nonirritant	Balls et al. (1995)
Tetraamino-pyrimidine sulfate	5392-28-9	100%	100%	Amine, Heterocycle	Solid			Nonirritant		Category III	Nonirritant	Nonirritant	Balls et al. (1995)
Thiourea	62-56-6	100%	100%	Organic sulfur compound	Solid							Severe	Balls et al. (1995)

Abbreviations: CASRN = Chemical Abstracts Service Registry Number; Conc. = Concentration; EPA = U.S. Environmental Protection Agency; EU = European Union; GHS = Globally Harmonized System; SCNM - Study Criteria Not Met.

¹Eye Irritant Category 1 = irreversible effects on the eye/serious damage to the eye; Category 2A = reversible effects on the eye/irritating to the eyes; Category 2B = reversible effects on the eye/mildly irritating to the eyes; Nonirritant = not an eye irritant

²NICEATM-defined subgroups assigned based on the lesions that drove classification of a GHS Category 1 substance. 1: based on lesions that are persistent; 2: based on lesions that are severe (not including corneal opacity score equal to 4); 3: based on lesions that are severe (not including corneal opacity score equal to 4) and persistent; 4: corneal opacity score equal to 4 at any time; NC: No subclassification could be made based on the data.

³Toxicity Category I for the Primary Eye Irritation Study = Corrosive, or corneal involvement or irritation not reversible within 21 days; Category II = Corneal involvement or irritation clearing in 8-21 days; Category III = Corneal involvement or irritation clearing in 7 days or less; Category IV = Minimal effects clearing within 24 hr.

⁴Risk phrase R41 = risk of serious damage to the eyes; R36 = irritating to the eyes; nonirritant = not an eye irritant.

⁵S-Score represents irritation scores that were calculated using the method described in Balls et al. (1995).